

Penn State presents honors

STATE COLLEGE, Pa. — The Golf Course Turfgrass Management Program class of 33 graduated on March 7 at the Nittany Lion Inn. Dr. James Mortensen, associate dean for undergraduate education, addressed the graduates, while the keynote speaker was Dr. John Rogers III from Michigan State University.

Timothy C. Glorioso was honored with the Zimmerman Memorial Award for Outstanding Turfgrass Student as selected by fellow classmates. The award is sponsored by Lesco, Inc.

Meanwhile, Eric D. Cederstrom, Jeffrey L. Ische and Eric C. Puls won Trans-Mississippi Golf Association scholarships, and Ische, Puls, Scott E. Carrier, Arthur J. Petrone, Scott E. Pieper and Owen G. Russell were presented Penncross Bentgrass Growers Association scholarships.

Also, Glorioso was presented the Pennsylvania Turfgrass Council award; Dan E. Stockdale the Duff Shaw Memorial; Cederstrom the D.M. Boyd award; Ann M. Paulisich the Myles Adderly Technical Report Writing Award sponsored by Denis Griffiths and Associates; and Ann M. Paulisich the PSU Alumni Outstanding Student Award.

Poa annua

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biological fungicide while naming BioJect an application device.

Eco Soil has asked the EPA for an expanded Experimental Use Permit (EUP) for *Xanthomonas campestris* and expects approval in July, Johnson said. Until now, Ironwood Country Club and Big-horn Golf Club in Palm Desert,

Tamarisk Country Club in Rancho Mirage and Del Mar have been the only golf courses allowed to use the product. The new EUP would allow the company to use it on 5,000 acres.

That translates to 100 courses, Johnson said. There are about 400 BioJect systems in operation domestically and they have been approved in 12 states: Arizona, California, Connecticut, Florida, Illinois, Indiana, Massachusetts, Michigan, Nevada, New York, Pennsylvania and Texas.

Eco Soil may add states to this list, said Vice President of Product Development John Doyle.

"Our plan is to get 100 field sites actively involved as soon as possible," Johnson said. "The results will be very apparent within the first growing season. They will either see wilting [of *poa annua*] or not. It will not necessarily kill all their *poa*. It may be a longer-term process than that."

Thus far, he said, "We're very encouraged by the results. I can't say there isn't room for improvement. There have been several obstacles, and the results have varied by site. Del Mar showed the most immediate results. Tamarisk showed the program to be effective in keeping the population of *poa* in check as compared to control areas where population levels increased over time.

"We didn't see the wilting at Tamarisk that we would like to have seen. That was probably a function of not beginning applications until December. We think it's most effective when it's applied when *poa* is in its germination stage; so one of the times we want it applied in California is in the fall when they're overseeding."

Johnson said Eco Soil will probably recommend applications during six to seven months a year in the South, starting in the overseeding time and proceeding through spring.

Just how expensive will *poa annua* control be with this program?

Eco Soil leases the BioJect Systems for \$6,000 per year. The average annual cost of the program is between \$16,000 and \$20,000 because of a monthly charge for the course's biological program.

"We're trying to be realistic and not raise the expectations in the marketplace through the roof," said Doyle. "There is no silver bullet, but this definitely prevents efficacy in the field trials. So we're optimistic."

"This obviously is a huge opportunity for us and we're devoting a lot of resources to it," Johnson added.

No one in the business would argue that a control for *poa annua* is a revolutionary development.

And Johnson even hinted that another great advancement lies over the horizon: a control for perennial annual bluegrass.

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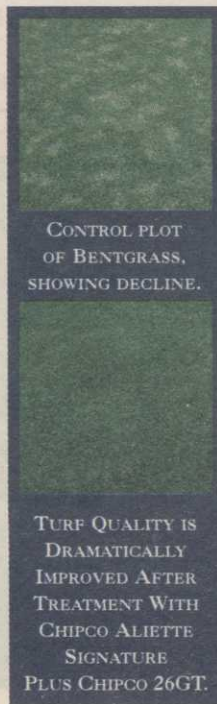
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conducted a rather dramatic experiment. First, they mowed a patch of turf down almost to the dirt. Second, a tankmix of SIGNATURE and 26GT was applied according to label instructions. The result was dramatic. The artificially-stressed

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